



# Framework for Chemical Selection

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Possible Chemicals for Biomonitoring  
in California



California Environmental Contaminant  
Biomonitoring Program



June 10, 2008  
Oakland, California



# Selection Process in Legislation

**CDC  
Chemicals**

**Designated  
Chemicals**

**Selections  
following PC  
Criteria**

**Additions following  
to DC Criteria**

**Priority (PC)  
Chemicals for  
California**

**Biomonitored  
Chemicals**

**Feasibility/Resources**



# “Designated chemicals”

“... consist of only those substances including **chemical families or metabolites** that are included in the federal Centers for Disease Control and Prevention studies ... and any substances as specified pursuant to subdivision (c) of Section 105449.

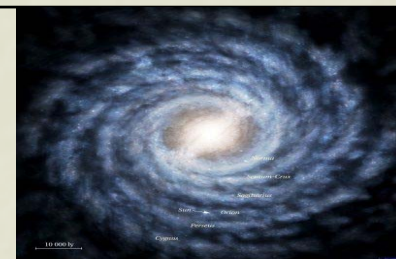
# Chemical Selection Discussion at December 2007 Panel Meeting

## Track 1:



- Get opinions about important exposures or what to biomonitor in California, from
  - the public
  - the industry
  - state government

## Track 2:



- Broadly find out about what we exposed to
- Methodically work through chemical lists
- Identify bad actors that can be biomonitored



# Action Items on Chemical Selection from Dec 2007 Panel Meeting

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- “Track 1” Activities: Get input on which chemicals to biomonitor
  - Hold workshop with staff from other major biomonitoring programs  
June 9
  - Hold public input workshops  
3 workshops; 3 teleconferences
  - Ask other State of California programs  
Program inquiries or interviews
  - Ask the industry and public  
Survey (+ workshops and teleconferences)

- “Track 2” Activities: Work through chemical lists — CUPA, TRI, CDC, DPR, Proposition 65
- Difficult, large task. For further panel discussion



## Description of the CDC chemicals begun

	Parent/Metabolite						IRIS	
	CDC 2003-2004 NHANES List	found at 90th %ile	Cancer Grp	Cancer	Repro/Dev	Endocrine	Oral RfD	Noncancer
CAS #	Parent Chemical (Alph. by Group)	in 3rd CDC report	(IARC)	(Prop 65)	(Prop 65)	Disruptor	mg/kg-d	Critical Effect (oral)
	Phthalates							
85-68-7	Benzylbutyl phthalate	X	3		X	1	2.E-01	Increased liver:body weight & liver:brain weight ratios

- Could expand to other lists or lists of suggested chemicals and other lists & add persistence, bioavailability and other categories
    - Hard to do with current resources
    - Unclear how expanded table would be used
- ⇒ Further Panel discussion would be helpful

# Chemical Selection Presentations

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- Chemicals / Chemical families suggested
  - At workshops, teleconferences, through email and surveys

Diana Lee – California Department of Public Health
  - During interviews and through other inquiries of state staff

Gail Krowech – Office of Environmental Health Hazard Assessment (OEHHA)
- Ways to select priorities (this afternoon)
  - Suggestions from public and state staff

Amy Dunn - OEHHA



# Caveats

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- State programs and public were asked  
“What do you think should be biomonitoring?”
  - Designated vs. priority chemical distinction not made
- Program envisions designated chemical and priority chemicals pools to evolve over time
  - Chemical selection recurring agenda item at Panel meetings